

WHAT IS CLAIMED IS:

1. A diagnostic apparatus for a fuel cell installed in a moving object as a power source, comprising:
 - 5 an operation control portion that is connected to a control system installed in the moving object to perform operation control of the fuel cell and that performs operation control of the fuel cell by issuing an operational instruction to the control system;
 - a diagnostic portion that diagnoses a state of the fuel cell on the basis of operation of the fuel cell controlled by the operation control portion; and
 - 10 a power adjustment portion that adjusts power obtained from the fuel cell operated by the operation control portion during a diagnosis made by the diagnostic portion.
2. The diagnostic apparatus according to claim 1, wherein
information on an operational state of the fuel cell is input to the operation control portion
15 via the control system.
3. The diagnostic apparatus according to claim 2, wherein
the diagnostic portion diagnoses a state of the fuel cell on the basis of information on the
operational state of the fuel cell which has been input to the operation control portion via
20 the control system.
4. The diagnostic apparatus according to claim 1, wherein
the operation control portion controls adjustment of power by the power adjustment
portion.
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5. The diagnostic apparatus according to claim 1, wherein
the power adjustment portion is connected to an output terminal of the fuel cell and adjusts
power by absorbing or consuming power obtained from the fuel cell.
- 30 6. The diagnostic apparatus according to claim 1, wherein
the power adjustment portion is provided with an accumulator portion that can be charged
with and discharged of electricity, and adjusts power by charging the accumulator portion
with power obtained from the fuel cell.

7. The diagnostic apparatus according to claim 1, wherein the diagnostic apparatus is separate from the moving object.

8. The diagnostic apparatus according to claim 1, wherein
5 the operation control portion adjusts power by charging an accumulator portion installed in the moving object with power obtained from the fuel cell.

9. The diagnostic apparatus according to claim 8, wherein
the power adjustment portion is a charging system that is installed in the moving object
10 and that can charge the accumulator portion with power obtained from the fuel cell.

10. The diagnostic apparatus according to claim 1, wherein
the power adjustment portion adjusts power by consuming power obtained from the fuel
cell by a power-consuming unit installed in the moving object.

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11. The diagnostic apparatus according to claim 10, wherein
the power adjustment portion includes a unit control system that is installed in the moving
object to control driving of the power-consuming unit consuming power obtained from the
fuel cell.

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12. The diagnostic apparatus according to claim 1, further comprising:
a fuel gas supply portion that supplies the fuel cell with a fuel gas as a substitute for a fuel
gas supply system installed in the moving object to supply the fuel cell with a fuel gas
serving for power generation by the fuel cell.

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13. The diagnostic apparatus according to claim 1, further comprising:
a cooling portion that cools the fuel cell as a substitute for a cooling system installed in the
moving object to cool the fuel cell.

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14. A diagnostic method for a fuel cell installed in a moving object as a power
source, comprising the steps of:
performing operation control of the fuel cell by issuing a predetermined operational
instruction to a control system installed in the moving object to perform operation control
of the fuel cell;

adjusting power obtained from the fuel cell operated by the predetermined operational instruction; and

diagnosing a state of the fuel cell on the basis of operation of the fuel cell resulting from the operational instruction.

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15. The diagnostic method according to claim 14, wherein
a fuel gas serving for power generation by the fuel cell is supplied to the fuel cell from the outside of the moving object for the diagnosis.

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16. The diagnostic method according to claim 14, wherein
a coolant is supplied to the fuel cell from the outside of the moving object so as to cool the fuel cell for the diagnosis.